

MAR 18 2004

Concentration of OPG in human breast milk

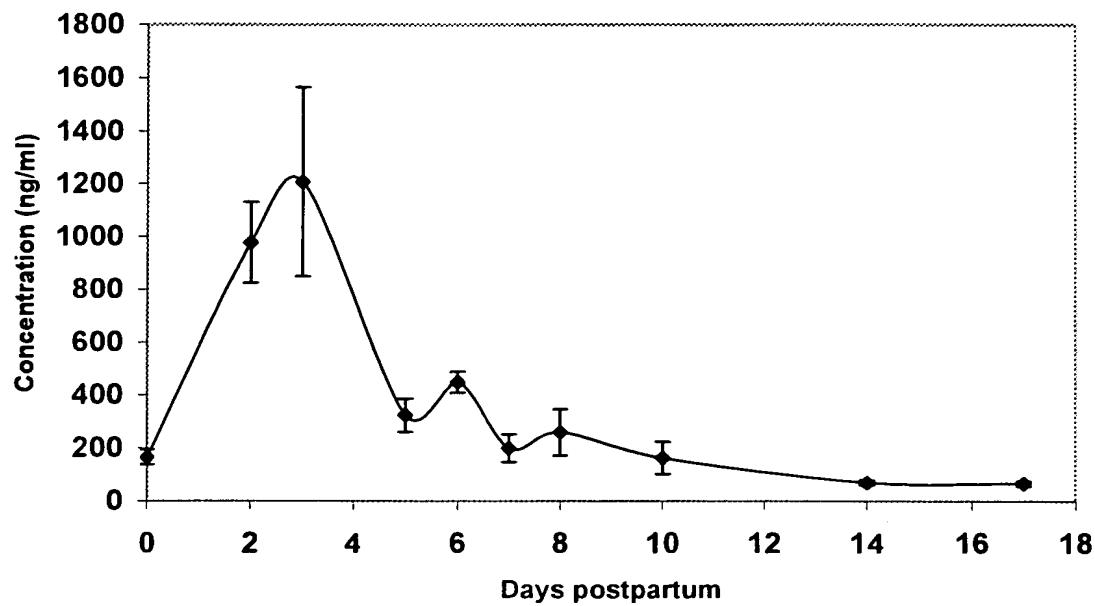


Fig. 1

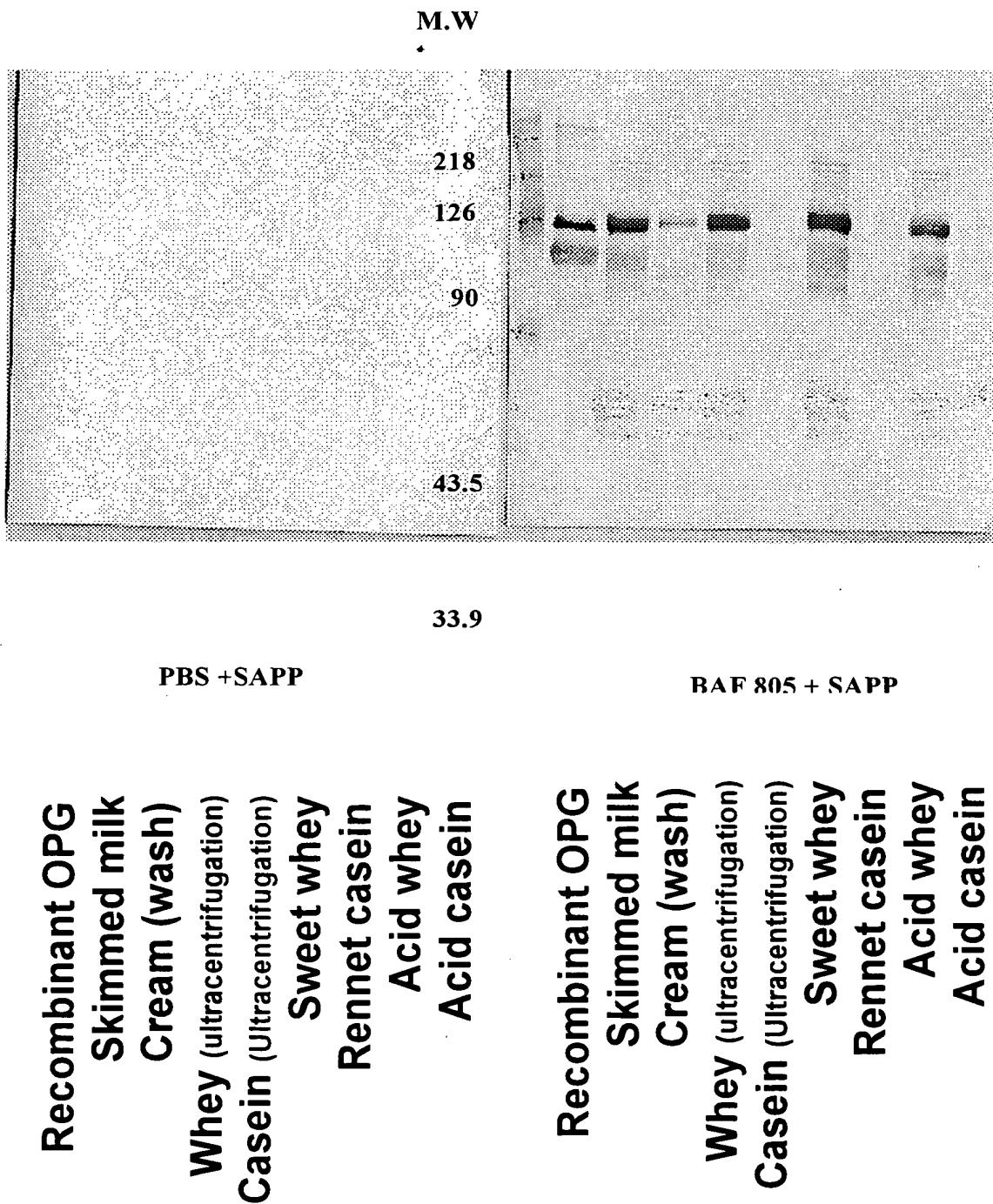


Fig. 2

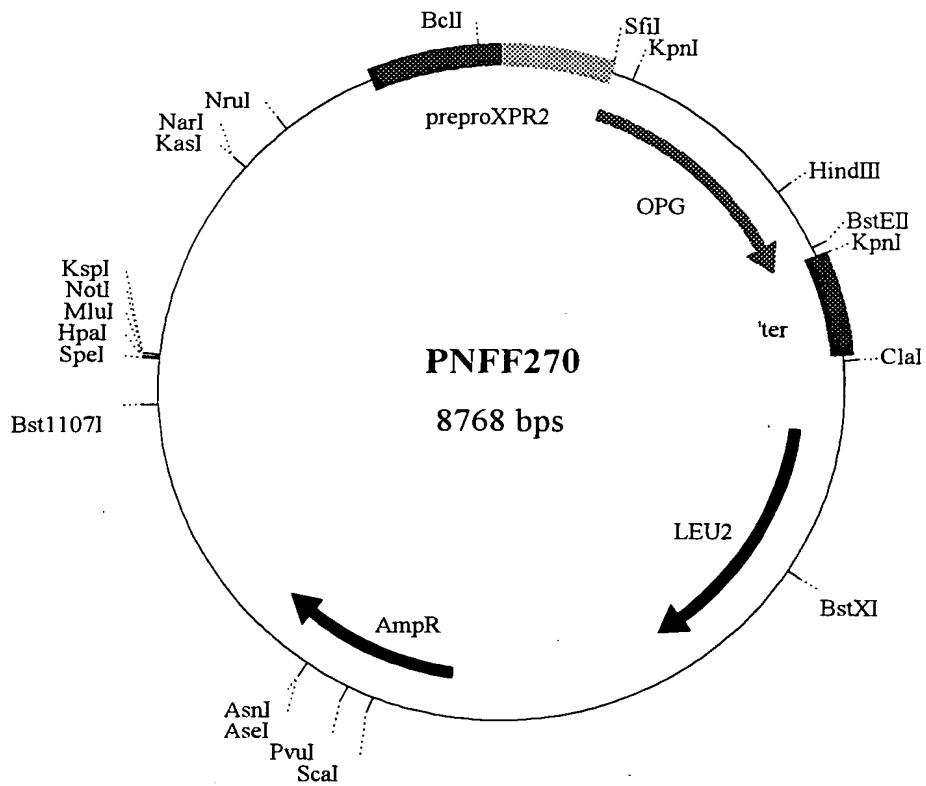


Figure 3

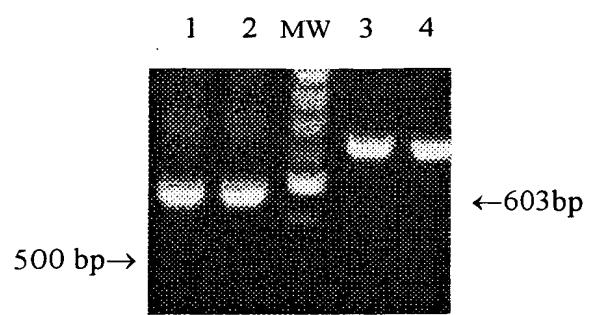


Figure 4

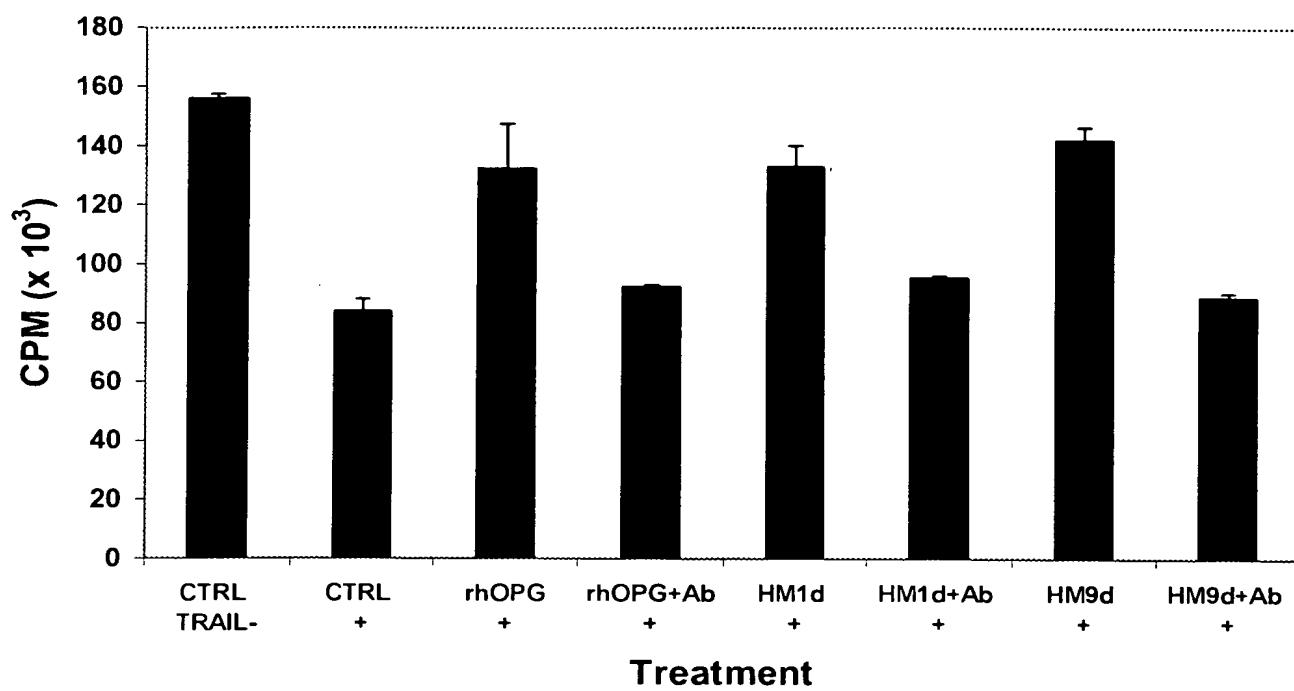


Figure 5

MKLATAFTILTAVLAAPLAAPAPAPDAAPAAVPEGAAAAYSSIISVVAKQSKKFKHHKR
DLDEKDQFIVVFDSSATVDQIASEIQKLDLSVDEDSSNGITSALDLPVYTDGSGFLGFVG
KFNSTIVDKLKESSVLTVEPDTIVSLPEIPASSAAKRETFPPKYLHYDEETSHQLLCDKC
PPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDECLYCSPPVCKELQYVKQECNRTHNRV
CECKEGRYLEIEFCLKHRSCPPGFVVQAGTPERNTVCKRCPDGFFSNETSSKAPCRKHT
NCSVFGLLLTKQGNATHDNICSGNSESTQKCGIDVTLCEEAFFRFAVPTKFTPWNWLSVLV
DNLPGTKVNAESVERIKRQHSSQEQTQQLKLWKHQNKAQDIVKKIIQDIDLCENSQVRH
IGHANLTFEQLRSLMESLPGKKVGAEDIETIKACKPSDQILKLLSLWRIKNGDQDTLKG
LMHALKHSKTYHFPKTVTQSLKKTIRFLHSFTMYKLYQKLFLEMIGNQVQSVKISCL

Figure 6

	1	<u>TCCGGCCTCTCGGCC</u> gccaagcga	GAAACGTTCTCTCAAAGTACCTTCATTATGACGA	60
	1	xpr2	E T F P P K Y L H Y D E	12
5	61	AGAAACCTCTCATCAGCTGTTGTCGACAAATGTCCTCTGGTACCTACCTAAAACAACA		120
	13	E T S H Q L L C D K C P P G T Y L K Q H		32
	121	CTGTACAGCAAAGTGGAGACCGTGTGCGCCCCCTGCCCTGACCACTACTACACAGACAG		180
	33	C T A K W K T V C A P C P D H Y Y T D S		52
10	181	CTGGCACACCAGTGACGAGTGTCTATACTGCAGCCCCGTGTGCAAGGAGCTGCAGTACGT		240
	53	W H T S D E C L Y C S P V C K E L Q Y V		72
	241	CAAGCAGGAGTGCAATCGACCCACAACCGCGTGTGCGAATGCAAGGAAGGGCGCTACCT		300
15	73	K Q E C N R T H N R V C E C K E G R Y L		92
	301	TGAGATAGAGTTCTGCTTGAACACATAGGAGCTGCCCTCTGGATTGGAGTGGTGCAAGC		360
	93	E I E F C L K H R S C P P G F G V V Q A		112
20	361	TGGAACCCCAGAGCGAAATACAGTTGCAAAAGATGTCAGATGGTTCTCTCAAATGA		420
	113	G T P E R N T V C K R C P D G F F S N E		132
	421	GACGTCATCTAAAGCACCTGTAGAAAACACACAAATTGCACTGTCTTGGTCTCTGCT		480
	133	T S S K A P C R K H T N C S V F G L L L		152
25	481	AACTCAGAAAGGAAATGCAACACACGACAACATATGTTCCGAAACAGTGAATCAACTCA		540
	153	T Q K G N A T H D N I C S G N S E S T Q		172
	541	AAAATGTGGAATAGATGTTACCTGTGTGAGGAGGCATTCTTCAGGTTGCTGTTCTAC		600
30	173	K C G I D V T L C E E A F F R F A V P T		192
	601	AAAGTTACGCCAACTGGCTTAGTGTCTGGTAGACAATTGCTGGCACCAAAGTAAA		660
	193	K F T P N W L S V L V D N L P G T K V N		212
	661	CGCAGAGAGTGTAGAGAGGATAAAACGGCAACACAGCTCACAGAACAGACTTCCAGCT		720
35	213	A E S V E R I K R Q H S S Q E Q T F Q L		232
		C		
	721	GCTGAAGTTATGGAAACATCAAACAAAGACCAAGATATAGTCAGAAAGATCATCCAAGA		780
	233	L K L W K H Q N K D Q D I V K K I I Q D		252
		A		
40	781	TATTGACCTCTGTGAAAACAGCGTGCAGCGGCACATTGGACATGCTAACCTCACCTCGA		840
	253	I D L C E N S V Q R H I G H A N L T F E		272
	841	GCAGCTTCGTAGCTTGATGAAAGCTTACCGGGAAAGAAAGTGGGAGCAGAACAGACATTGA		900
45	273	Q L R S L M E S L P G K K V G A E D I E		292
	901	AAAAACAATAAAGGCATGCAAACCCAGTGACCAAGATCCTGAAGCTGCTAGTTGTGGCG		960
	293	K T I K A C K P S D Q I L K L L S L W R		312
	961	AATAAAAAATGGCGACCAAGACACCTTGAAGGGCTAATGCACGCACTAAAGCACTCAA		1020
50	313	I K N G D Q D T L K G L M H A L K H S K		332

Figure 7. Sequence of milk OPG.

5
1021 GACGTACCACTTCCAAAAGTCACTCAGAGTCTAAAGAAGACCATCAGGTTCTTCA 1080
333 T Y H F P K T V T Q S L K K T I R F L H 352
1081 CAGCTTCACAATGTACAAATTGTATCAGAAGTTATTTTAGAAATGATAGGTAAACAGGT 1140
353 S F T M Y K L Y Q K L F L E M I G N Q V 372
1141 CCAATCAGTAAAAATAAGCTGCTTATAACTAGTATCACTAGT 1182
10 373 Q S V K I S C L 380

Figure 7. Sequence of milk OPG. (Continued)